

CLAIMS

What is claimed is:

1. A method for managing remote software code update, comprising:
  - receiving a message from an embedded device, said embedded device comprising a first code space comprising at least one segment and a second code space comprising one or more segment;
  - decoding said message to determine the execution mode of said embedded device;
  - indicating code in said first code space is corrupted if said execution mode indicates said embedded device is executing in said second code space; and
  - indicating said code in said first code space is valid if said execution mode indicates said embedded device is executing in said first code space.
2. The method of claim 1, further comprising:
  - receiving self-test results from said embedded device if said first code space is valid;
  - and
  - indicating code in said second code space must be restored when said self-test results indicate said code in said second code space is invalid.
3. The method of claim 1, further comprising filtering subsequent communications to said embedded device if said execution mode indicates said embedded device is executing in said second code space.

4. An apparatus for managing remote software code update, the apparatus comprising:
  - means for receiving a message from an embedded device, said embedded device comprising a first code space comprising at least one segment and a second code space comprising one or more segment;
  - means for decoding said message to determine the execution mode of said embedded device;
  - means for indicating code in said first code space is corrupted if said execution mode indicates said embedded device is executing in said second code space; and
  - means for indicating said code in said first code space is valid if said execution mode indicates said embedded device is executing in said first code space.
5. The apparatus of claim 4, further comprising:
  - means for receiving self-test results from said embedded device if said first code space is valid; and
  - means for indicating code in said second code space must be restored when said self-test results indicate said code in said second code space is invalid.
6. The apparatus of claim 4, further comprising means for filtering subsequent communications to said embedded device if said execution mode indicates said embedded device is executing in said second code space.
7. An apparatus for managing remote software code update, comprising:
  - a memory;

a network interface coupled to said memory and configured to receive a message from an embedded device, said embedded device comprising a first code space comprising at least one segment and a second code space comprising one or more segment;

a processor coupled to said network interface and configured to decode said message to determine the execution mode of said embedded device, said processor further configured to indicate code in said first code space is corrupted if said execution mode indicates said embedded device is executing in said second code space, said processor further configured to indicate said code in said first code space is valid if said execution mode indicates said embedded device is executing in said first code space.

8. The apparatus of claim 7 wherein

said network interface is further configured to receive self-test results from said embedded device if said first code space is valid; and

said processor is further configured to indicate code in said second code space must be restored when said self-test results indicate said code in said second code space is invalid.

9. The apparatus of claim 7 wherein said processor is further configured to filter subsequent communications to said embedded device if said execution mode indicates said embedded device is executing in said second code space.
10. A method for managing remote software code update, comprising:
- examining a message received from a remote device to determine the execution mode of said remote device, said remote device comprising a first code space comprising at least one segment and a second code space comprising one or more segment; and
  - indicating the validity of code in said first code space based on whether said execution mode indicates said remote device is executing in said second code space.